

Unit 3, Topic 3 – Development of the Design Brief

1. Based on your findings in Topic 2 (Problem Situation), develop a “Design Brief” with the following subheadings:

- DESCRIPTION – Write a paragraph (4 to 5 sentences) that describes the main problems your team found. Try to find a common issue among all the problems for the last sentence. Perhaps, when you look at your list of problems altogether, you see that you have issues with space, or building materials or layout or cost or aesthetics.
- STATEMENT – Write your goal in ONE(1) sentence. What is it that you plan to do and why? Here is an example: *“Given the rising cost of fuel, our team will employ a unique blend of solar, wind and geothermal energy that will be demonstrated in a pie-shaped bungalow that faces south toward the sun.”*
- CRITERIA – List the conditions and limitations of your build. Who are you working with? Where will you be building? What materials are you going to use? Do you have all the necessary skills? Is there anything that will slow you down or make your final prototype less than it can (and should) be?
- EXPECTATIONS – Create a checklist for the final step of the Design Process. When you show your final model or prototype to the class, how do you know you have reached your goal? For example, my expectations for the family car are:
 - Must go at 100km/hr
 - Must seat 4 people
 - Must have interior heat (for the winter)
 - Must have air conditioning (for the summer)
 - Must be able to go in reverse
 - Must not cost too much in maintenance
 - Must have brakes
 - Must have some storage space (for groceries or luggage or kayak gear)

2. These FOUR(4) headings (DESCRIPTION, STATEMENT, CRITERIA and EXPECTATIONS) should go on separate slides in your Microsoft PowerPoint presentation.